MAY
VOL.2

BULL-ETIN

1971
NO.4

SAN ANTONIO RADIO CLUB

President - Floyd Roland, W5JKU
Vice-President-Gene Jank, W5EJT
Secretary - Bill Ross, K5LLK
Treasurer - Frank Box,WA5VFM
Sargent-at-Arms - Dan DeLay, W5DUI

Meets first and third Fridays at 7:30 p.m. at the Red Cross Building, 90 Brees St. All who have an INTEREST in amateur radio are cordially invited to attend.

Bulletin Editor, Dean Davis, W5BGE Typist, Maybelle Davis, XYL
Published Bi-monthly (Hopefully!)

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PREZ° KORNER

by W5JKU

The club's code and theory classes seem to be producing a new crop of hams. In fact, Jack WN5ECD is on, so give him a shout on 7180 khz. Frank WA5VFM has given ten novice examinations and is waiting to receive the theory exams. At least two more plan to take their general in May, and others will try later in the year. Carl WA5DQG is giving a short session of 13 wmp at each class.

The club is trying to have at least one program meeting a month. We had an excellent one on the national traffic system by Jim Hicks W5EZY. Another good program was the ARRL film, "The World of Amateur Radio" loaned to us by Roy W5EYB. Future programs include one on tape recorders by Bill K5LLK, and on June 18 Dave W5DUV will show a film and talk on eye operations.

At a number of the meetings there were discussions on the FCC proposed rule making. I was happy to see the free and friendly debate, and expressions of opinions. There was even a motion (which was defeated) to write the FCC and ARRL concerning the club's opinion. I believe that when the club wants to take a stand on a matter that sets the external policy of the club, ALL members must be polled and that the membership realizes and agrees to follow the majority. I further believe every member has a right to his opinions and a right to express them. An opinion poll at two or these meetings was taken on the FCC proposal and each time about 1/3 was against it, 1/3 for it, and 1/3 wanted changes other than the ones proposed. There is still time for those who want to write the FCC, but one must realize that a FCC hearing is like a court. If one expresses an opinion he must back it up with facts and good reasons. Looking at the proposal from paragraph six to the end, one will see that he has to show that the proposal does not further the cause of the incentive licensing, or he has facts on band usage contrary to that of the FCC, or it is too complex or costly for the FCC to administer.

Frank W5QMH is still looking for help for field day, although he is getting close to having a station on all bands. So hadn't you better make your plans and call him at 725-5588?

The club received a thank you letter from the FCC for its work on a TVI problem. We wish to thank Terry W5ETG, Walt K5YFW, George W5OI, Bob W5PKK and Bill K5LLK for a job well done. See you at the meeting.

73, Floyd W5JKU.

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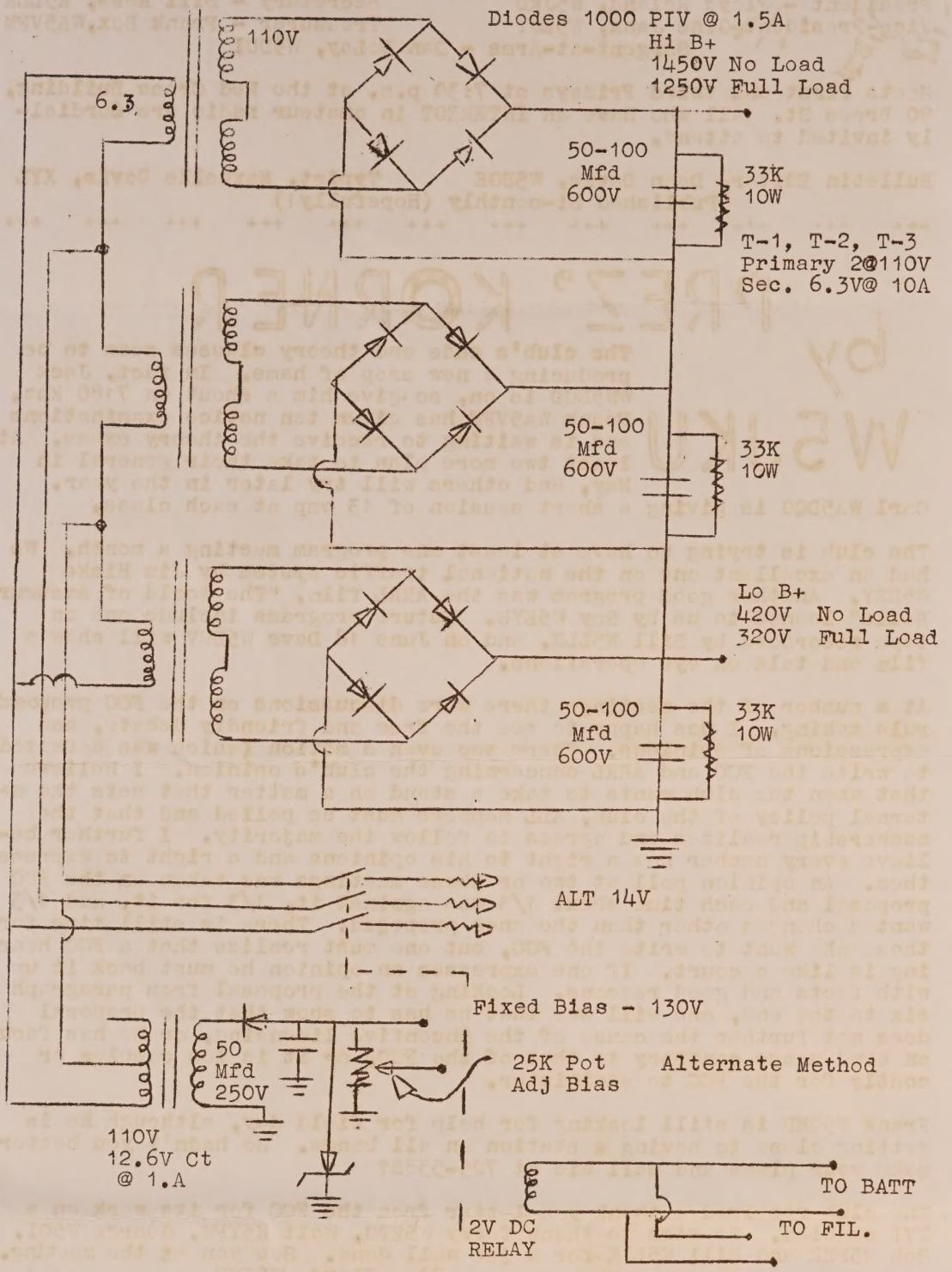
S P L A T T E R - Bob W5PKK had major surgery 11 May Brooks Gen.Hosp. Should be there at least another week....14 April Express' Ann Landers' column told about wife who was tired of her OM playing cards, so got him interested in ham radio. Her complaint was he had started a short-wave romance with a female ham in San Antonio, even staying up to 2am talking to her. We wondered who the MYSTERY YL was and spent some time in research of all known YL ops and drew a blank!!....Local chapter of QCWA held quarterly meeting in April at home of John W5LPO. They voted to again sponsor 20 cw FD....Ole W5PEK and Jim K5UKN now active on 2 FM with new rigs....24-25 April at Lake Whitney found the W5EYB's showing off their new tent at picnic of 7290 tfc net and TTN tfc net confab. Also attending from SA were the W5BE's, K5HZR's and W5BGE's ....SARO held quarterly meeting in April--all committees fundtioning well, also reporting 35 paid members. 73, Dean W5BGE.

3 PHASE MOBILE P/S

By WA5RNV



This is a Hi-Power version of the March Bulletin article on 3 phase mobile P/S with some revisions which can be noted from the schematic. The bias trouble reported in March issue has been taken care of by addition of zener diode in bias supply - now no problem with engine idling.

Connections to the alternator are simple. Run a 3 cond #12 stranded wire, solder one lead to each of the three terminal posts inside the rear of the alternator. Be sure and slip a small hard wire into the small hole at rear of alternator to hold the springs and brushes while taking the alternator apart. 73, Ivan WA5RNV.

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FOR SALE - Eico 720 CW xmtr, 100 watts (can be used for novice): $45.00 NC183D receiver: $150.00.....Grid Dip Meter, James Millen (all coils): $15.00.....Call Al W5YWS, 342-7932, 401 Foxhall Lane.

FIELD DAY #3

by W5QMH

FIELD DAY IS JUST AROUND THE CORNER--JUNE 26-27. The same area as last year in the Northeast Preserve., on Jones-Maltzburger Rd.--just north of Blossom Stadium, which is north of the airport--has been reserved again this year. Frank Gerwitz W5QMH is FD chairman, ably assisted by Joe WA5OMB and John Henderson. They are looking for H-E-L-P!! All interested amateurs in the San Antonio area are invited to participate in this chance to utilize amateur equipment under emergency conditions for a continuous 24 hours. Field Day will begin at 1800 z (1 p.m. CDST) Saturday June 26. If you can help for any portion of the 24 hours, please contact Frank 734-5598, Joe 826-7533, or John 221-5067. ALL NOVICES ATTENTION! If there is enouch interest from the novices, a transmitting site will be set aside for them. This was done last year for the first time and was very successful.

Each phone and each CW segment is considered as a separate band. A station may be worked once on each band. Cross-band contacts are not allowed. The use of more than one transmitter at the same time in a single band is prohibited, except that a novice position may operate on any novice band segment at any time. Stations making contact, in order to count their contact as valid, must exchange ARRL section (see page 6 in any QST) and signal report.

Operators participating in the FD may not, from any other station, contact for point credit the FD portable station of a group with which they participated. This is intended to outlaw any kind of manufactured contacts. Any Class A group whose entry classification is three or more transmitters may also use one novice operating position, (to be set up and operated only by novice class licensees) without changing their basic entry classifications. The novice position must use a novice call sign and must keep their own logs and check sheets. The novice position QSO total may be added to the group QSO total before multiplier.

Scoring is based on the number of valid contacts times the multiplier corresponding to the highest power used at any time during the FD period, plus bonus points. If all contact are made using a dc input power of 10 watts or less and if a power source other than commercial mains or motor-driven generator is used (e.g. batteries, solar cells, water-driven generators, etc.) multiply by 3. If any or all contacts are made using a dc input power of 200 watts or less, multiply by 2. Multiply by 1 if any or all contacts are made using a dc input power over 200 watts up to 1000 watts. Over 1000 watts, multiply by ZERO! Power on ssb phone is considered to be half the peak envelopt power.

The following bonus points may be added to the score (after the multiplier is applied) to determine the final score. (1) 100 points for 100% emergency power, per transmitter classification. (2) 50 points for public relations. (3) 50 points for message origination, addressed to the SCM or SEC, stating the name of club, number of operators, field location and number of AREC members participating. This message must be transmitted during the operating period. (4) 5 points for each message received and relayed during the FD period, up to a maximum of 50 points.

Make plans now for your FD operation and let your committee know what you would like to do! -,-. --.- 73, .-. Frank W5QMH

SAN ANTONIO RADIO CLUB MEMBERSHIP

(Add the following names to your roster of active club members)

BLAIR	Jeff	WN5DYB	Box 1078, Brooks AFB	78235	536-3827
BORCHES,	Leonard	W5JBI	525 Argo	78209	826-4135
BROWN,	Joe	W5DFS	118 Saxon Dr.	78213	344-3275
CLARK,	Mike	WAØNBO/5	5006 Village Path	78218	653-3333
CLARK,	Marylyn		" " "	"	"
GALLAGHER,	Ed	WA5TPK	6827 Martinque	78227	674-2209
HUNTER,	David	W5DUU	6013 Rue Sophie	78238	684-4657
JENSEN,	Edgar	K5HSX	216 Pleasant Dr.	78201	734-0024
JONES,	Leonard	K5KRZ	122 Saratoga	78213	341-2389
MILLER,	John	K5FVW	2414 Glen Ivy	78213	344-2439
PARKINSON,	Willard	WA5TOH	7922 Remuda	78227	674-5945
PARKINSON,	Myrtle	WA5TOG	" "	"	
SMITH,	Peter	W6DUI/5	1060 Curtess Ave.	Shertz, Texas	658-1188
ROSS, JR.	Bill		426 E. Myrtle	78212	225-3746

by OLE OPINES #4

OR Bright Remarks for Dull QSOs and Other Nuggets.

W5PEK

Ham magazines have individually collectively carried innumerable uses for unwanted ballpoint pens. Here is one that is unusual, to say the least. Ballpoint pens are an unrivalled means of purchasing ink at rougly $27,000 per gallon.

Very few CW operators seem to realize how useful the "Z" code can be to them, although extracts from it are occasionally published in the periodicals. Some of the things the "Z" code covers which the "Q" code does not are: ZWO, send words once only; ZZH, Try again; ZGS, Signals getting stronger; ZGW, Signals getting weaker; ZCL, Transmit call letters intelligibly. Others are ZPE, punch everything; ZRC, Can you receive code; ZUB, We have been unable to break you. The whole thing is well worth studying, if only to amaze your firneds. Seriously though, the "Z" signals say things easily adapted to amateur usage and would save a lot of time.

Have you heard about the little old lady that generated TVI from stroking her cat!

The resonance of an unknown LC combination can be worked out by converting it to a series-tuned circuit connected across the antenna terminals of a receiver. A sharp increase in noise will be found at exact resonance of the LC circuit as the Rx is swept across the bands.

I had a problem the other day. Needed an SO-239 to BNC coax adapter. The problem was compounded by having a Japanese-type SO-239/PL-259 with odd threads. Simple solution. Took an Amphenol Type UG-657/U BNC connector and found that it was a force fit on the barrel of the Jap connector. Soldered the center conductor in place on the BNC connector, forced the shoulder over the Jap connector, and soldered it together. Very useful when one has a Jap rig and 2 places to plug it.

To run a feedline underground, the lead-in can be inserted in a suitable length of plastic pipe or hose and buried. The plastic is virtually immune from soil erosion and the effects of moisture. Buried a few inches, it will be there as long as wanted and permits pulling new feeders into place easily. One precaution, however. The ends of the pipe/hose should be carefully caulked to prevent moisture from entering.

When filing aluminum, chalk rubbed on the file will prevent the teeth from clogging.

An easy way to make soldered antenna connections outdoors is to wrap cored solder around the cleaned-up joint and bind the solder in place with aluminum foil. Heat the joint with a small torch, lighter, or even a candle, until the flux in the solder burns off. Unwrap the foil, and you will find a perfect joint.

Finally, I understand one of our more promising SAC students has a summer job lined up. It is rumored that he will work as a "Taster" for Lone Star. I believe he obtained the position through experience in the Field Day operations. 73. Ole - W5PEK

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S U P E R H A M M O T H E R

Recently Bill W5GYW fell from the roof of his home, breaking his arm and crushing a cheek bone. During the time he was in the hospital, the ham bands became suddenly alive with amateurs from Texas, Oklahoma and New Mexico inquiring as to his welfare.

It developed that a chain reaction set up with the arrival of Mrs. Lillie Bettis of Maysville, Oklahoma--"Mother" to nine (9) licensed amateurs: WN5BYP Daughter-in-law Betty, Maysville, Okla.; WA5EAR Grand son Tom, Norman, Okla.; WA5RBK Grandson Clifford, Norman, Okla.; W5KYE Granddaughter Paula, Edinburg, Tex.; K6EJD/5 Son Bob, Kingsville,Tex.; WA5LFG Son Homer, Okla. City, Okla.; WA5DZY Son Ed, Maysville, Okla.; WA5LQL Son Jerry, Albuquerque, N.M.; W5GYW Son Bill, San Antonio,Tx. Incidentally, Bill seems to be doing nicely with "MOMS" help.

SCM REPORT #5

by K5HZR

Reading through the spring edition of the ARRL Communications Department Bulletin I came across some rather interesting material which I thought worth repeating. The difference between an ARRL member-subscriber and a subscribing member poses a question. The member-subscriber is an ARRL member who gets a monthly copy of QST "free" with his membership dues. The subscribing member is interested only in getting the magazine each month and does not participate in membership functions. To which category do you belong? Quote of the Month (May QST) from "Wisconsin Radio Amateur"--If you don't support ARRL, what do you support?

The typical ARRL affiliated Amateur Radio Club is loaded with subscribing members: members who are inclined to "let George do it" when there is work to be done but who have an overabundance of advice as to how it ought to be done. There are a few member subscribers left however; those who get involved, hold 2 or 3 ARRL appointments, help the Club with it code and theory classes, TVI committee, etc. It's too bad tho that there are not enough of them around.

There are many openings for appointments in the Southern Texas Section and there are many talented amateurs to fill them. Are you one of these? The May Frequency Measuring Test announcement is on page 104 April QST. I urge as many as can to give it a whirl. You have nothing to lose and you might qualify for Class I or II Official Observer. In the past the FCC has often commended us (amateur radio) for our efforts at self-policing. The official Observer is one of our most important field appointments and the need for good OO's is ever increasing. I' recently had the pleasure of appointing one of our local amateurs as OPS. He had not applied until I pointed out to him that he had been performing the function all along and all he needed to do was to apply, it's not such a painful procedure and you might enjoy being an appointee. There are many benefits to be derived plus the fact you become involved in helping others.

E. Lee Ulrey K5HZR
Section Communications Manager Southern Texas Section ARRL

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FOR SALE

STEN CONVENTION 11, 12, 13 June - Kerrville - Del Norte Motel..... INFO - Jerry W5KLV, 110 Rosemont Drive, S. A., 78228,Ph. 735-0635.

"FOR SALE" ITEMS WILL BE USED WHEN SPACE AVAILABLE . . . . .

1. G.E. Progress Line 2M Transceiver on Repeater Frequency, D.C. Power Supply, Cables, Speaker, Control Head and Relay Mount - $175.00
2. G.E. Progress Line 2M AK Power Supply on Repeater Frequency-$175.00
3. Will trade for or buy good model 80 Signal Generator.
4. Various Components i.e. Receivers, Transmitters, Cases, etc. are also available for sale or trade.

For information on above items call WA5OJC - Bill Hale, Tel.684-1200

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E-Z Way RBS-40 Tower; CDR Ham Rotator TR-44; Hornet TB-750 3 el. beam. Total Price $300.00. For Info Call Vance E. Gildersleeve W5GST Phone 648-0613.

Dan DeLay W5DUI is looking for a SB 200. 734-4739.

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ALL IN A DAY'S WORK

If your son wants to let his hair grow long,you might find some comfort in the knowledge that it takes about two months to grow one inch of hair. At least that's the way I figure it, based on this information: In the course of one day -

Your heart beats 103,689 times.
You breathe 23,040 times.
You inhale 438 cubic feet of air.
You eat 3¼ pounds of food.
You drink two quarts of liquids.
You speak 4,800 words.
You move 750 muscles.
Your nails grow .00046 inch.
Your hair grows .01714 inch.
You exercise .000014 brain cells.

Courtesy Telephone Talk Southwestern Bell.

2 & 6 FM #6

by WA5OJC

The San Antonio Repeater organization has an excellent opportunity to grow to its full potential for a city the size of San Antonio. The growth of the organization could be drastically retarted and could even lose members now in the organization if good operating procedure are not followed and consideration given to all members. It should be kept in mind that we are a single frequency organization and prolonged QSOs should not take place between any two or group of stations without pausing occasionally to ascertain if others would like to make a transmission. It is noted that this sometimes happens and is discouraging to some members.

Further observations indicate that a select few seem to occupy the frequency and can be contacted by each other without difficulty. These two situations can ruin the effectiveness of the organization and may render it practically useless during emergencies, etc.

To preclude this from happening, each member should recognize that he is only one equal part of the organization and should make all members feel that they are accepted as the same. Therefore, to build an organization equal to its potential in membership and to its effectiveness in serving the public as well as for individual satisfaction, courtecies on the frequency must be shown to all members.

We are blessed with some of the finest elected officials, committees and technical assistance to be found in any repeater organization. These persons, however, cannot control the situation outlined, therefore each individual must do his part.

It is definitely not necessary to clear the frequency with a transmission saying that you are clearing it. A non-emergency contact, if you do not have a specific station in mind, should be made by giving your call letters once, or by calling CQ (or equivalent). In an emergency, blind transmissions are allowable. The frequency is often monitored by people who cannot transmit for one or more reasons but can relay your emergency message.

Let's make the San Antonio Repeater organization the envy of all others.

73, Bill WA5OJC.

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WA5GOQ by CAR RACES

Hams of the SARC and SARO spent a strenuous two days and rendered an appreciated public service at Camp Gary in operating a two meter network for sports car races sponsored by Alamo Region, Sports Car Club of America on May 1 and 2. Mobiles were stationed at each of the 6 corners of the 1.9 mile course which kept race officials at the start-finish line continually aware of every hazard situation or rules violation as the cars sped around the route in groups, assured safe conditions and brought quick emergency assistance to a car that caught fire at high speed. Participants in the exercise were WA5GOQ, W5PKK, W5ETG, WA5WON, WB5AYU, WB5DTW, W5QMU. WA5NZX and W8LIG (on pass from Wilford Hall Hospital). 73, Les WA5COQ.

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STATION IDENTIFICATION

Are you familiar with Sec. 97.87. (a) of the FCC regulations? Amateur Station identification requirements stipulate that the last transmission of your exchange must include your own call sign. This is a common oversight during contest and has resulted in FCC Citations. The traditional practice of placing the transmitting station's call last or preceding by "de" is acceptable for identification. For phone operation, the voice equivalent is acceptable. (This reminder from SW Division Director's Bulletin via the W6SD Carrier & Signal Report and relayed to us via "SIDEBANDS" in St. Louis, MO., and HAM HUM in Omaha, Nebraska.)

ARRL NEWS ARRL NEWS FROM THE DIRECTOR ARRL NEWS ARRL NEWS

THE ARRL BOARD MEETING

As expected, the FCC proposal (DOCKET 19162) to change our frequency allocations aroused more heat than light at the recent board meeting. The fact that the board was able to come to some semblence of agreement after four exhausting days of informal and formal discussion is perhaps a tribute to the dedication of individual members of the board.

Most certainly there was disagreement, and individual factions exerted all possible pressure to get their viewpoint understood and accepted. Whether or not the commission will accept the ARRL proposal, in toto or in part, remains to be seen. Fortunately, the recommended changes were few in number.

The most controversial item of course was the proposed fone expansion on 75 meters.

The Commission proposes to move the low edge of 75 fone down to 3750 kc, with the Extra Class segment to be 3750 - 3775 kc (25 kc). Advanced Class to be 3775 - 3875 (100 kc, an increase over the present of 25 kc). General Class to be 3875 - 4000, an increase of 25 kc over the present 100.

ARRL is proposing the low edge to be 3775 kc (Extras 3775 - 3800). Under this proposal Advanced would have 3800 - 3825 kc., a DECREASE of 50 Kc from the present allocation, and 75 kc LESS than what the commission proposes to give them.

On the other hand, ARRL proposes to allocate 3825 - 4000 to the Generals, giving them a total of 175 kc (75 more than they have now, and 50 kc MORE than the commission proposes.

The most controversial item on 40 meters was the so-called 'window', 7075 - 7100 kc. Numerous comments received in reply to my questionnaire prior to the board meeting conclusively indicated this proposal was not clearly understood. Just how many of the board members were clear concerning its provisions and implications is a matter of opinion. This Director did not concur with the boards recommendation that this sub-band be limited to region 3 only. In fact, it is my considered opinion, based on replies to the questionnaire, that IF space is available here for fone it ought to be allocated to Advanced and Extra UNRESTRICTED. Most certainly the commission ought to clarify the ambiguity existing in par. 12 (p. 84) and sub-par (10) p. 85, April QST, before implementing either proposal.

On 20 meters, the board was of the opinion that the low end of the fone segments should begin at 14,175 rather than 14,150, as proposed by the commission. This would take 25 kc less slice from CW, but would retain only 75 kc for Generals fone, instead of the 100 proposed by the commission.

The board concurred in the FCC proposals for 15 meter fone allocations. However, it was recommended that no change be made in sub-allocations presently existing on the 10 meter band.

The board recommended that 25 kc be retained for Extra Class CW at the low edge of all bands, instead of reducing the allotment to 10 kc, as proposed by the FCC.

So, there you have it. A more complete summary, with additional details will appear in June, with complete board minutes in July QST. These issues of QST will reach us too late for further action, therefore:

IT IS RECOMMENDED EACH AMATEUR FILE HIS COMMENTS, IN 14 COPIES, WITH FCC, AT ONCE. DEADLINE FOR COMMENTS TO REACH FCC IS 1 JUNE. Copies can be made by zerox for approximately 10¢ per sheet. This ought to be $1.50 well spent.

For the record, replies to my questionnaire were so preponderantly in favor of accepting the FCC proposals I considered it my duty to obey the basic wishes expressed by the members, regardless of any personal opinion. A careful reading of the board minutes in July QST should readily indicate how each Director acted.

A final summary of replies to my questionnaire appears on the following page. Naturally I would have preferred a larger percentage of replies, but I was certainly gratified to see that for once we did have a majority opinion. Now comes the time to close ranks and to cease dissension. Probably none of us will be completely happy with the final FCC decision but most likely the results will give us some relief from the intolerable conditions now existing on the bands. We can further alleviate our problems by an aggressive program of upgrading our tickets.

OTHER BOARD ACTIONS

The board decided to wait until January 1972 to further consider a proposal to increase dues. Because of postage increases, printing and paper costs, labor, and other factors it isn't just a question of whether or not we will be faced with the need to increase dues, but rather when, and how much. It is recommended that those who are considering Life Membership in the League take action as soon as possible in order to get in under the wire before dues increases go into effect. Life membership applications must be approved by the Executive committee in order to be valid and most likely the September meeting will be the last one this year. The rate for Life membership is 20 times the annual rate, hence the advisability to get the applications in before dues are increased. Incidentally, we now have over 1000 Life members!

The board, on motion of Mr. Albright, has requested the General Manager to spell out our operating expenses in more detail in his quarterly reports to Directors. This will permit the Directors to do a much better job of keeping the members informed on the multitude of services performed for amateur radio, by the League. It is very doubtful that the average amateur is aware of the wide variety of services we give to amateur radio.

Discussions with FCC regarding what we can, and what we cannot discuss on the amateur bands, or what types of messages we may handle, are being continued. The League continues to hold the position that we are entitled to transmit any type of message, so long as we receive no pay, in any form. The Commission's recent declaration in the Eye Bank case clouds the issue. We hope the affair can be resolved into a matter of semantics which lends itself to clarification in a manner satisfactory to all. Our General Manager and General Counsel are working on the problem.

The previously announced 1972 ARRL National Convention aboard the Queen Mary, in Los Angeles harbor, has been cancelled. They just can't get the old lady's face lifted in time for the convention.

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Upon my request, the General Manager has approved a visit to San Antonio and El Paso by Lewis McCoy, W1ICP of the Leagues Technical staff. Lew's fine work is well known in these parts and he has more goodies coming up. Tentative schedule for his visit is September. Details later. In the meantime, the keepers of the red carpet in S.A and El Paso are requested to start preparing a bang up welcome for Lew.

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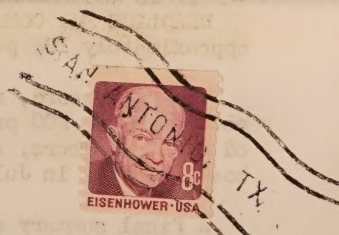
On 6,7 April I mailed letters to all 4864 ARRL members in this division, asking their opinion concerning FCC Docket 19162 (proposed band segment changes). 1418 replies have been received. This represents a response of 29.2%. Results follow:

	EXTRA	ADVANCED	GEN'L/CONDT'L	TECH'N	NOVICE	NO OPINION	OTHER	TOTALS	%
ACCEPT	114	430	336	29	46		2	957	67.5
REJECT	56	72	87	13	24		2	254	17.9
CHANGE	57	64	53	8	14		2	198	14.0
NO OP'N						9		9	0.6
TOTALS	227	566	476	50	84	9	6	1418	
PERCENT	16.0	40.0	33.6	3.5	5.9	0.6	0.4		

Since money for postage is not available to send this letter to all ARRL members recipients are requested to give the contents wide publicity.

73, ROY L. ALBRIGHT, W5EYB, DIRECTOR, WEST GULF DIVISION ARRL. 20 May 1971.

SAN ANTONIO RADIO CLUB
P. O. BOX 62
SAN ANTONIO, TEXAS 78206



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